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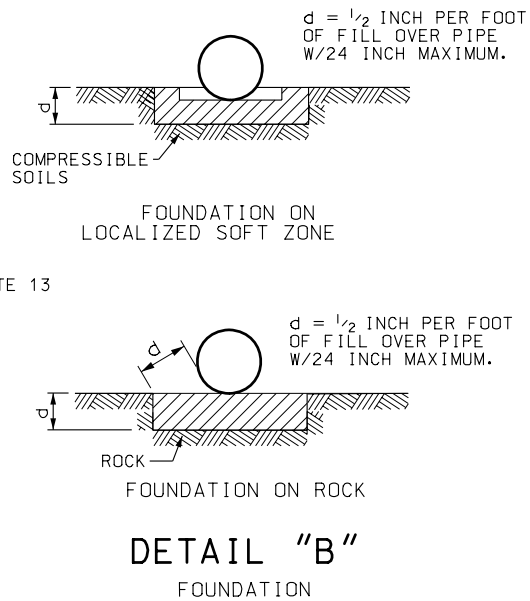
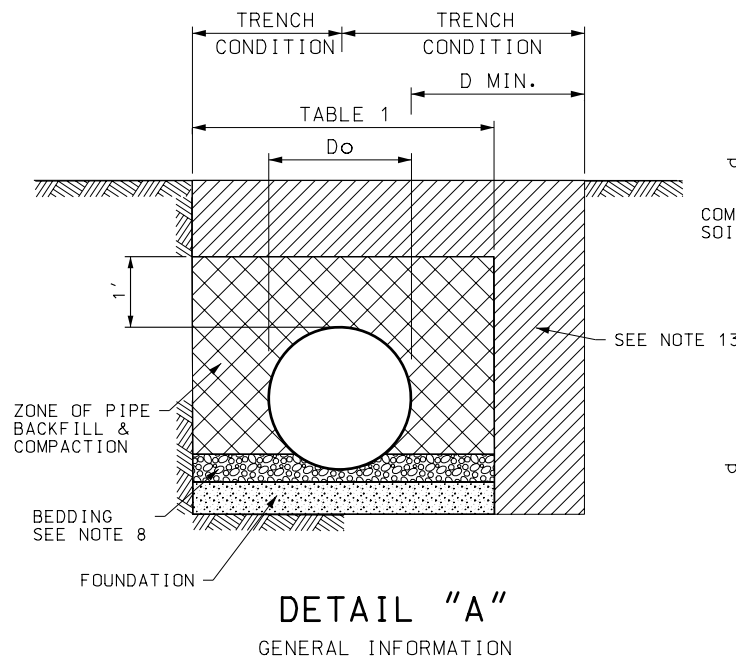


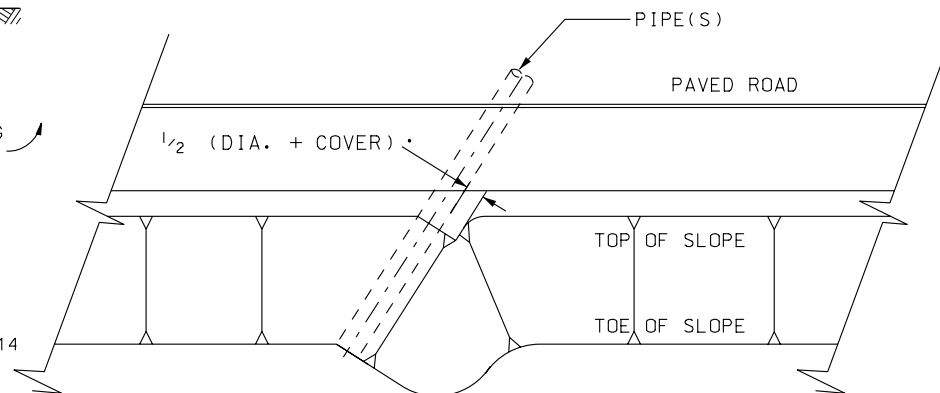
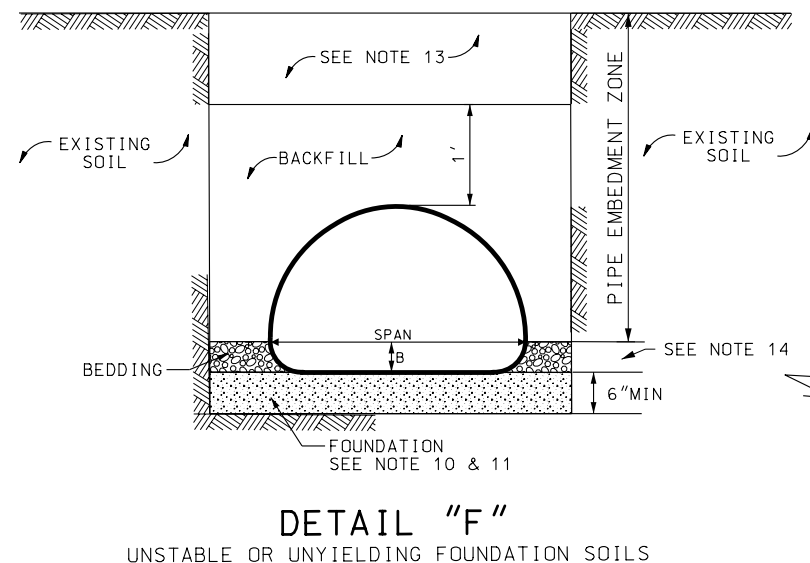
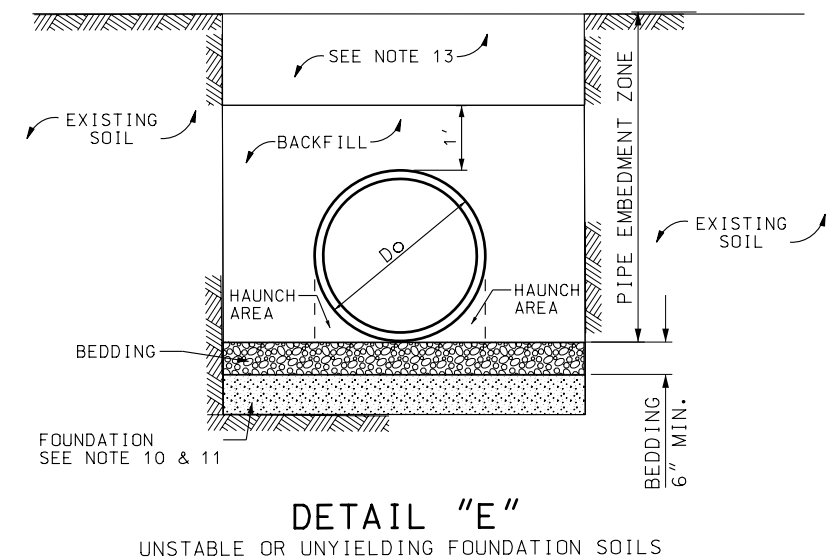
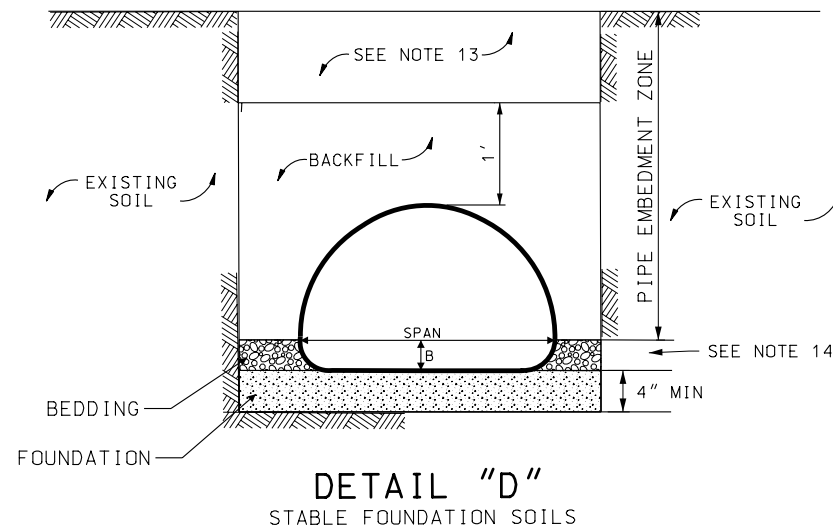
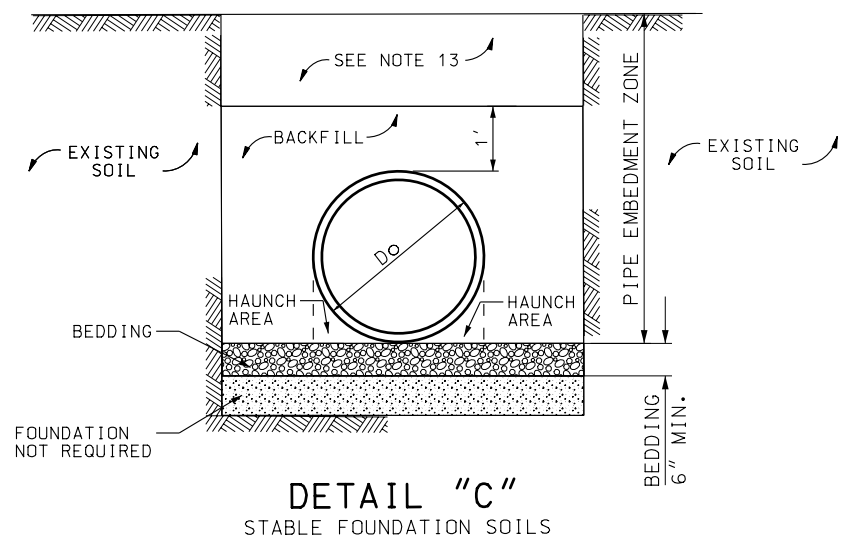
TABLE 1: MINIMUM TRENCH WIDTH

PIPE NOMINAL SIZE/SPAN (INCHES)	MINIMUM WIDTH* (FEET)
18	3.7
24	4.6
30	5.5
36	6.4
42	7.3
48	8.2
54	9.1
60	10.0

\* EMBANKMENT CONDITION USE D MIN. SEE DETAIL "A"

NOTES:

- PRECOMPACTION AND COMPACTION PER AASHTO T 99 WITH DENSITY NOT LESS THAN 90% OF LABORATORY DENSITY. PLACE UNIFORM LAYERS ON BOTH SIDES OF THE PIPE. FOLLOW STANDARD SPECIFICATION SECTION 02324.
- USE STD DWG DG 1, 2, AND 4.
- RECESS THE BEDDING TO RECEIVE CULVERT JOINTS WHERE APPLICABLE.
- SEAL CONNECTIONS TO JUNCTIONS BOXES, MANHOLES, AND INLETS ACCORDING TO SPECIFICATIONS.
- PROTECT PIPE INSTALLATION DURING CONSTRUCTION. DO NOT EXCEED DESIGN STRENGTH.
- USE COMPACTION EQUIPMENT SMALLER THAN THE TRENCH WIDTH BETWEEN THE PIPE AND TRENCH WALL. FULLY COMPACT THE HAUNCH AREAS. HAND TAMP AREAS WHERE COMPACTION EQUIPMENT CAN NOT COMPACT.
- EXCAVATE A TRENCH OF EQUAL OR GREATER WIDTH THAN SHOWN ON TABLE 1. INCREASE THE TRENCH WIDTH TO 2 FEET MINIMUM ON EACH SIDE OF THE PIPE WHEN EXISTING SOIL DOES NOT MEET THE REQUIREMENTS OF NOTE 8.
- USE WELL GRADED BEDDING AND STRUCTURAL BACKFILL FREE OF ORGANIC MATERIAL AND FROZEN LUMPS, MEETING AASHTO M 145, A-1, A-2-4, A-2-5, OR A-3. EXCLUDE ANY PARTICLES 1.5 INCHES LONG OR 50% OF THE WIDTH OF THE EXTERNAL PIPE CORRUGATIONS IN THE GREATEST DIMENSION.
- DO NOT DISTURB INSTALLED PIPE OR EMBEDMENT OR LEAVE VOIDS WHEN USING TRENCH BOXES AND SHIELDS.
- REMOVE AS DIRECTED BY THE ENGINEER ALL FOUNDATIONS THAT HAVE UNSTABLE SOILS SUCH AS PEAT, BOG, SILTS, CLAYS, AND UNCEMENTED SANDS WHOSE WATER CONTENT EXCEED THEIR LIQUID LIMITS. REPLACE WITH SUITABLE BACKFILL MATERIAL.
- EXCAVATE ROCK OR UNYIELDING MATERIAL FROM THE BOTTOM OF THE TRENCH AND PROVIDE 6 INCHES MINIMUM OF BEDDING MATERIAL.
- FOLLOW STANDARD SPECIFICATION SECTION 00820 AND "THE UDOT CONSTRUCTION SAFETY AND HEALTH MANUAL" FOR MINIMUM SAFETY TRENCH REQUIREMENTS.
- SELECT, PLACE, AND COMPACT MATERIAL IN THE ZONE EXTENDING MORE THAN 1 FOOT ABOVE THE PIPE FINAL GRADE, ACCORDING TO PLANS AND SPECIFICATIONS.
- PLACE BEDDING UP TO WIDEST POINT OF PIPE ARCH.



END TREATMENT OF SKEW CULVERTS

UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL

SALESMAN

CHAIRMAN

STANDARD COMMITTEE

APPROVED

DEPUTY DIRECTOR

METAL PIPE OR  
PIPE ARCH CULVERT  
INSTALLATION

STD DWG  
DG 5B

STANDARD DRAWING TITLE

REVISIONS

NEW DRAWING.

1 02/23/06 M.F.

REMARKS

NO. DATE APPR.